

# The HIP-PATTIE HOP-PATTIE Frog Game



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User Manual  
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## I. Overview

This instruction will show you how to play *The HIP-PATTIE HOP-PATTIE Frog Game*.

In the game, there are two types of obstacles. One of them is a brick wall, these are located in various locations around the game board just like a maze. The frog cannot walk on and/or pass through the brick, so you must maneuver the frog around each wall in order to avoid them. Another obstacle is a monster; there are a number of the monsters hiding throughout the game board. During the frogs travels he may encounter the monster, if the frog collides with the monster he will become bigger; thus, it is hard to maneuver the obstacles. Therefore, avoiding the monsters allows you to reach a goal faster. Also if the frog becomes too big, he will get stuck in the maze and this will cause the game to end.

This game is easy and simple to play. However, these instructions assume that you are familiar with the window environment.

## II. The game characters

In this game, there are four characters: The Frog is the main character, the Brick walls are the obstacles, and the third character the monsters are the villains, and the frog's girlfriend.

### 1. Frog



- Move in any direction or at any speed
- The only character that the player can control
- Must avoid obstacles at all times

### 2. Brick



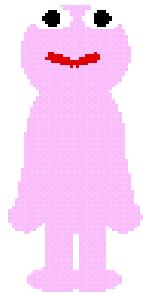
- Located in the random locations
- The number of bricks and location of them do not change
- The number of bricks is determined by the level of difficulty you choose

### 3. Monster



- The number of monsters depend on the level you select
  - Easy: 3 monsters
  - Medium: 5 monsters
  - Hard: 8 monsters
- Hiding in the random locations
- Constantly moving
- When the frog collides with monster, the frog becomes larger

#### 4. Frog's girlfriend



- Standing at the goal position all the time
- The player can re-size, move, and/or rotate some of her parts for fun.

## **III. Functionality Overview**

### **1. Difficulty level of the game**

You can select the difficulty level of the game, from easy, medium, or hard, by selecting the option buttons on the GUI.

### **2. Sound**

You can turn off/on the sound by unselect/select the sound check box (GUI).

### **3. Reaction**

You can select whether a frog will bounce after collides with wall or not by unselect/select the bounce check box (GUI).

### **4. Motion of a Frog**

You can change the direction of travel by pressing the appropriate arrow keys (kb) and arrow buttons (GUI). Also, by pressing the '<' (decrease) or '>'(decrease) keys (kb)/ changing the value of Speed Slider (GUI), you can change the speed of the frog's motion. However, you cannot control the motion of any obstacle objects.

### **5. Zoom in/out of the window**

To zoom in or out of the WW window, you can also use the mouse (by middle button click and drag) to zoom in/out, dragging to the left, or out, dragging to the right.

### **6. Move the window location**

To move the WW window, you can use the mouse (by right click and drag) to zoom in, dragging to the left, or zoom out, dragging to the right.

### **7. Terminate the current game**

You are able to terminate the current game by pressing the 'e' key (kb)/End button (GUI)

### **8. Play a game**

You can start a game by pressing the Start button (GUI).

### **9. Terminate the program**

You can immediately end the game and terminate the program by pressing 'escape' key (kb)/Exit button (GUI).

## **10.Message box**

GUI message box reflects the current state.

## **11.Timer**

Timer shows the current elapsed time during you are playing a game

## IV. Screen Appearance

The main window consists of three sections: World window, Viewpoint window, and GUI window. These are always visible, and the player can change the size of the main window by pressing the resize icons or dragging the window.

### Main Screen Appearance

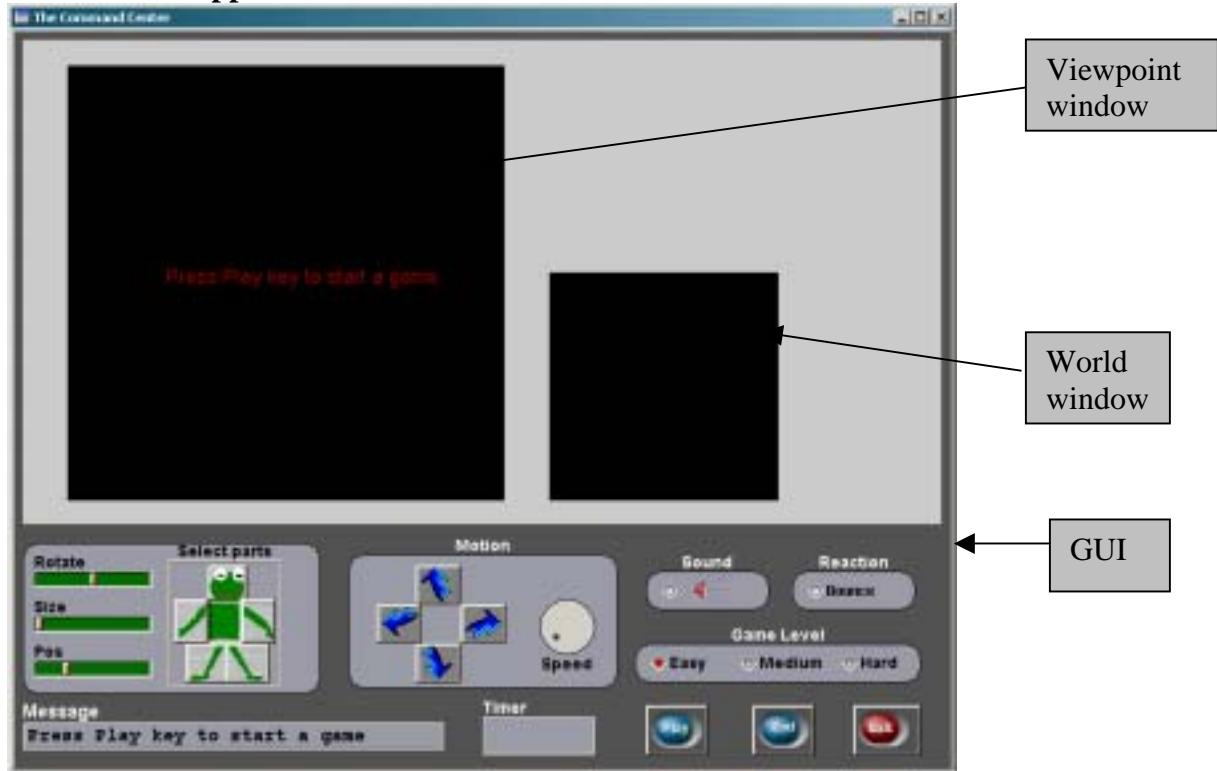


Figure IV: Main Screen appearance

### 1. Viewpoint Window

This window allows the players to follow the frog's motion and to see what obstacles are around the frog.

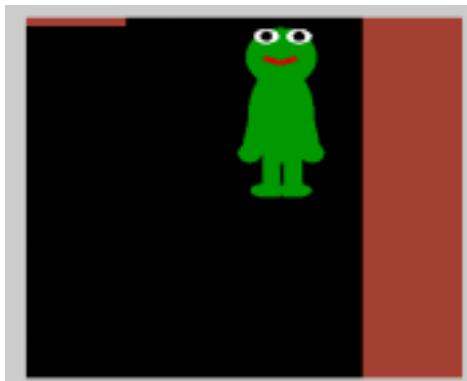


Figure IV-1: Viewpoint Window

## 2. World Window

This window always shows the entire worldview. The left bottom corner is the starting position and the right top corner is the goal position of the game. The user can choose how far around the frog he/she wants to see by zooming in/out

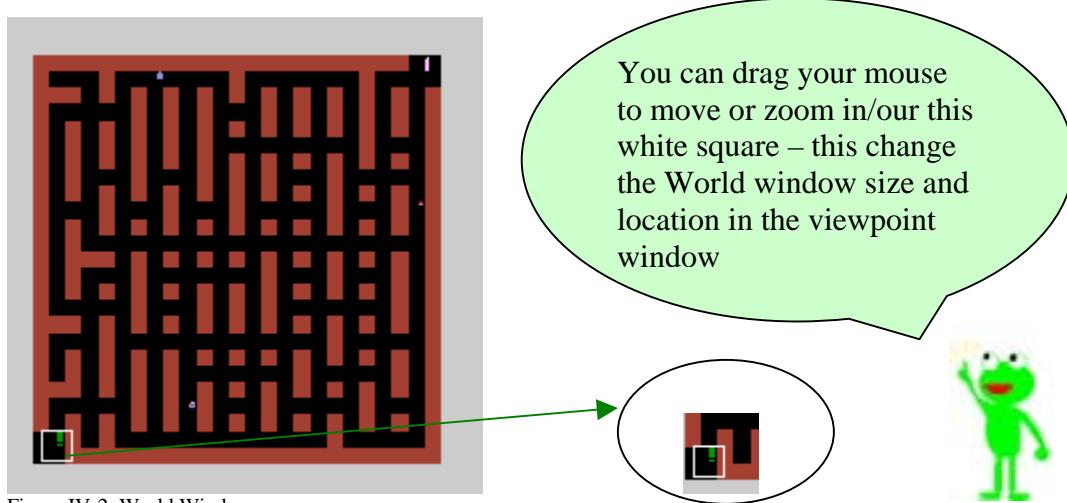


Figure IV-2: World Window

## 3. GUI

This window allows you to control and select options of the game.

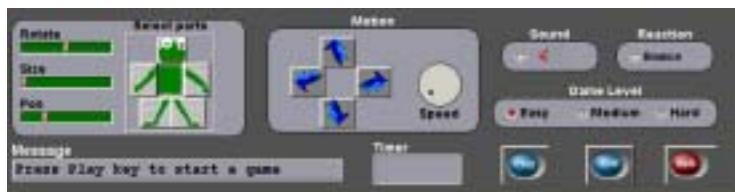


Figure IV-3: GUI Window

### a) Rotate/re-size/move tools

Allow you to re-size, move, and/or rotate some of frog's girlfriend's parts.



Figure IV-3 - a: rotate/re-size/move tool

#### i) Rotate/Size/Pos Bars

Move the bar to the right increases the value and to the left decreases the value.

**Rotate** – between -180 and 180

**Size** – between 0.9 and 9.0 (factor of the current size)

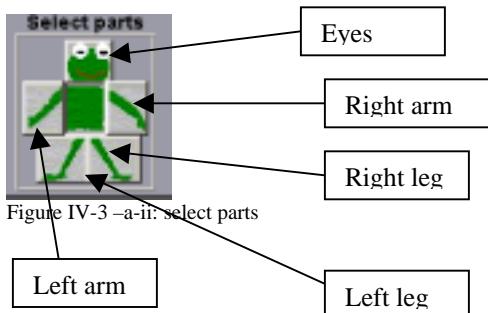
**Pos** – between -2.0 and 6.0



Figure IV-3-a-i: rotate/size/pos bar

### ii) Select Parts

Allow you to select which part you want to rotate/move/resize.



You cannot apply rotation to the head part and cannot apply move position to the body part.



### b) Motion tools

This allow you to control the motion of the frog



Figure IV-3 - b: Motion tool

#### i) Direction buttons

Choose the direction to travel. Note: The player cannot only travel to the N/S/W/E, but can also travel to the NE/NW/SE/SW.



Right: Rotate the direction toward East

Figure IV-3-b-i: right button



Left: rotate the direction toward West

Figure IV-3-b-i: left button



UP: rotate the direction toward North

Figure IV-3-b-i: up button



Down: rotate the direction toward South

Figure IV-3-b-i: down button

**ii) Speed slider**



Increases or decreases the speed of the frog's movement. Speed is from 0.5 to 2.0

Figure IV-3-b-ii: speed slider

**c) Exit button**

Terminate the program



Figure IV-3-c: Exit button

**d) Play button**

Start a new game



Figure IV-3-d: Play button

**e) End button**

End the current game



Figure IV-3-e: End button

**f) Game level option**

Changes the game's level of difficulty



Figure IV-3-f: game level option

**i) Easy option**

The number of monsters: 3

**ii) Medium option**

The number of monsters: 5

**iii) Hard option**

The number of monsters: 8

### **g) Sound check button**



Turns the sound effect of the game on/off

Figure IV-3-g: Sound check button

### **h) Reaction check button**



Turns the bounce reaction of a frog on/off

Figure IV-3-h: Sound check button

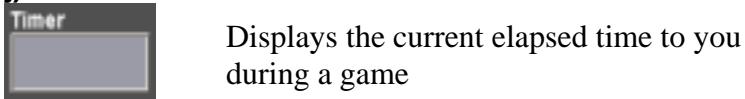
### **i) Message box**



Displays messages to the player

Figure IV-3-i: Message box

### **j) Timer**



Displays the current elapsed time to you during a game

Figure IV-3-j: Timer

When you want to re-size, move, and/or rotate some of frog's girlfriend's parts, you should stop the frog's motion at first (collide with wall will stop his motion), and drag the white square to where she



If you check the bounce reaction check box, the game will become harder..  
You should set the speed slower when you play with bounce mode.



## V. Keyboard/Mouse

Allow you to control and select some options of the game.

### 1. Keyboard

Allow you to change the direction/speed to travel, and end the current game/program

**a) '<' Key**

Decrease the speed (down to 0.5/35 milliseconds)

**b) '>' Key**

Increase the speed (up to 2.0/35 milliseconds).

**c) Up key**

Rotate the direction toward North

**d) Down key**

Rotate the direction toward South

**e) Right Key**

Rotate the direction toward West

**f) Left Key**

Rotate the direction toward East

**g) Esc Key**

Terminate the program

**h) 'e' Key**

Terminate the current game

### 2. Mouse

Allow you to move the location and size of world in the viewport window.

**a) Right Click & drag**

Change the location of the world

**b) Middle Click & drag**

Change the size of the world